## WHAT IS CLAIMED IS:

A compound of the formula

$$\begin{array}{c|c} R \xrightarrow{\int_{\mathbf{N}} \left( \mathbf{C}(\mathbf{R})_{2} \right)_{m}} \begin{pmatrix} \mathbf{C}(\mathbf{R})_{2} \end{pmatrix}_{m} \begin{pmatrix} \mathbf{C}(\mathbf{H})_{2} \end{pmatrix}_{n} \begin{pmatrix} \mathbf{C}(\mathbf{H})_{2} \end{pmatrix}_{p} \end{pmatrix}_{p} \begin{pmatrix} \mathbf{C}(\mathbf{H})_{2} \end{pmatrix}_{p} \begin{pmatrix} \mathbf{C}(\mathbf{H})_{2} \end{pmatrix}_{p} \end{pmatrix}_{p} \begin{pmatrix} \mathbf{C}(\mathbf$$

wherein:

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A is -H, amidino, or substituted amidino;

B is alkyl, cycloalkyl, cycloalkylalkyl, alkylcycloalkyl, alkylcycloalkylalkyl, aryl, aralkyl, alkylaryl, or alkylaralkyl;

$$\begin{array}{ccc}
-N - CH - \begin{pmatrix} O \\ II \\ C \end{pmatrix} - G \\
E & F
\end{array}$$
, wher

E is -H or, in combination with F, forms a 4-, 5-, 6-, or 7-membered azacycloalkane ring,

F is the a-carbon side chain of a naturally occuring a-amino acid, -H, alkyl, cycloalkyl, cycloalkyl, alkylcycloalkyl, alkylcycloalkyl, aryl, substituted aryl, aralkyl, substituted aralkyl, heterocyclyl, substituted heterocyclyl, heterocyclylalkyl, substituted heterocyclylalkyl, or, in combination with E, forms a 4-, 5-, 6-, or 7-membered azacycloalkane ring,

G is alkyl, cycloalkyl, cycloalkylalkyl, alkylcycloalkyl, alkylcycloalkylalkyl, aryl, substituted aryl, aralkyl, substituted aralkyl, heterocyclyl, substituted heterocyclylalkyl, or NR \(^1\)R^2, where R \(^1\) and R^2 are independently -H, alkyl, cycloalkyl, cycloalkylalkyl, alkylcycloalkyl, alkylcycloalkyl, aryl, aralkyl, alkylaryl, or alkylaralkyl, and

r is 0 or 1;

R is H-, alkyl, aryl, or aralkyl;

m is 1 to 5;

n is 0 to 6; and

p is 1 to 4;

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- 5 or a pharmaceutically acceptable salt thereof.
  - 2. A compound of claim 1 wherein F is -H, alkyl, hydroxymethyl, 1-hydroxyethyl, mercaptomethyl, 2-methylthioethyl, carboxymethyl, 2-carboxyethyl, 4-aminobutyl, 3-guanidinopropyl, cycloalkyl, cycloalkylalkyl, alkylcycloalkyl, alkylcycloalkylalkyl, aryl, substituted aryl, aralkyl, substituted aralkyl, heterocyclyl, substituted heterocyclylalkyl, or, in combination with E, forms a 4-, 5-, 6-, or 7-membered azacycloalkane ring, provided that heterocyclylalkyl is other than indol-3-ylmethyl.
- A compound of claim 2 wherein F is -H, alkyl, hydroxymethyl, 1-hydroxyethyl, mercaptomethyl, 2-methylthioethyl, carboxymethyl, 2-carboxyethyl, 4-aminobutyl, 3-guanidinopropyl, cycloalkyl, cycloalkylalkyl, alkylcycloalkyl, alkylcycloalkylalkyl, aryl, substituted aryl, aralkyl, substituted aralkyl, or, in combination with E, forms a 4-, 5-, 6-, or 7-membered azacycloalkane ring.
  - 4. A compound of claim 3 wherein F is -H, alkyl, hydroxymethyl, 1-hydroxyethyl, mercaptomethyl, 2-methylthioethyl, carboxymethyl, 2-carboxyethyl, 4-aminobutyl, 3-guanidinopropyl, cycloalkyl, cycloalkylalkyl, alkylcycloalkyl, alkylcycloalkylalkyl, or, in combination with E, forms a 4-, 5-, 6-, or 7-membered azacycloalkane ring.
  - 5. A compound of claim 4 wherein B is alkyl, cycloalkyl, cycloalkylalkyl, alkylcycloalkyl, or alkylcycloalkylalkyl.
    - 6. A compound of the formula

$$\begin{array}{c} (CH_2)_m & O & O & O & O \\ N & I & CH_2 \\ N &$$

wherein:

35 A is -H or amidino,

B is alkyl, cycloalkyl, cycloalkylalkyl, alkylcycloalkyl, alkylcycloalkylalkyl, aryl, aralkyl, alkylaryl, or alkylaralkyl,

J is -H, alkyl, cycloalkyl, cycloalkylalkyl, alkylcycloalkyl, alkylcycloalkylalkyl, 5 aryl, substituted aryl, aralkyl, substituted aralkyl,

L is  $\mathrm{OR}^1$ , or  $\mathrm{NR}^1\mathrm{R}^2$ , where  $\mathrm{R}^1$  and  $\mathrm{R}^2$  are independently -H, alkyl, cycloalkyl, cycloalkylalkyl, alkylcycloalkyl, alkylcycloalkylalkyl, aryl, aralkyl, alkylaryl, or alkylaralkyl,

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m is 1 to 5,

n is 2 to 6, and

15 p is 1 or 2;

or a pharmaceutically acceptable salt thereof.

7. A compound of claim 6 wherein

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A is -H,

B is alkyl, cycloalkyl, cycloalkylalkyl, alkylcycloalkyl, alkylcycloalkylalkyl,

25 J is -H, alkyl, cycloalkyl, cycloalkylalkyl, alkylcycloalkyl, or alkylcycloalkylalkyl,

m is 3, and

n is 3 or 4.

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8. A compound of claim 7 wherein

A is -H,

35 B is alkyl,

J is alkyl, cycloalkyl, or cycloalkylalkyl,

 $R^1\ {\rm and}\ R^2$  are independently -H, alkyl, cycloalkyl, cycloalkylalkyl, alkylcycloalkyl, alkylcycloalkylalkyl,

m is 3,

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n is 3 or 4, and

p is 1.

10 9. A compound of claim 7 which is

N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl] valine,

N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl]-D-valine,

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N-[N-[N-(3-(piperidin-4-yl)propanoyl)-N-ethylglycyl]aspartyl] valine,

N-[N-[N-(5-(piperidin-4-yl)pentanoyl)-N-ethylglycyl]aspartyl] valine,

20 N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl]-L-a-cyclohexyl glycine,

 $\label{eq:n-N-N-ethylglycyl} N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-b-cyclohexylalanine,$ 

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N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl] norleucine,

N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl]-L-a-(2,2-dimethyl)prop3-yl glycine,

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 $\label{eq:n-local-poly-nethylglycyl} N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-L-b-cis-decahydronaphth-2-ylalanine,$ 

N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl]-a-35 aminocyclohexanecarboxylic acid,

 $\label{eq:n-energy} N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-b-cyclohexyl-D-alanine,$ 

N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-b-decahydronaphthl-ylalanine,

N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-b-cyclooctylalanine,

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N-[N-(N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl]-b-adamantl-ylalanine,

N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-b-(4-10 cyclohexyl)cyclohexylalanine,

N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl]-b-cycloheptylalanine,

N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl]-a-cyclohexylpropylglycine,

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 $\label{eq:n-problem} N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-b-cyclopentylalanine$ 

 $N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-L-b-25 \\ decahydronaphth-l-yl alanine, or$ 

 $\label{eq:n-local-poly-nethylglycyl} N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-L-a-(2-cyclohexylethyl)glycine,$ 

30 or a pharmaceutically acceptable salt thereof.

10. A compound of claim 7 which is

N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl] phenylalanine,

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N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-b-(1,2,3,4)-tetrahydronaphth-5-ylalanine,

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 $\label{eq:n-lambda-local} $$N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-L-b-naphth-1-ylalanine, or$ 

 $\label{eq:N-N-N-ethylglycyl} N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl]-L-b-naphth-2-yl 5 alanine,$ 

or a pharmaceutically acceptable salt thereof.

11. A compound of claim 7 which is

N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl]-L-b-cyclohexyl alanine amide,

N-[N-(A-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl]-b-' cyclooctylalanine amide,

N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-b-cyclohexylmethylalanine amide, or

20 N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl]-b-cyclohexylalanine ethyl amide,

or a pharmaceutically acceptable salt thereof.

25 12. A compound of claim 6 which is

 $\label{eq:n-energy} N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-L-b-cyclohexyl alanine, ethyl ester,$ 

- 30 N-[N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl]-bcyclohexylmethylalanine ethyl ester, or
  - 3-Adamant-1-ylpropyl-N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartate,
- or a pharmaceutically acceptable salt thereof.
  - 13. A compound of claim 1 which is

 $\label{eq:condition} 2-cyclohexyl-N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl] as partyl]-ethylamine, or$ 

N-[N-(4-(piperidin-4-yl)butanoyl)-N-ethylglycyl]aspartyl]-a-5 cyclohexylmethylethanolamine,

or a pharmaceutically acceptable salt thereof.

- A pharmaceutical composition comprising an antithrombotic effective
   amount of a compound of claim 1 and a pharmaceutically acceptable carrier.
  - 15. A pharmaceutical composition comprising an antithrombotic effective amount of a compound of claim 6 and a pharmaceutically acceptable carrier.
- 15 16. A method for the prevention or treatment of thrombosis in a mammal in need of such therapy comprising the administration of a therapeutically effective amount of a compound of claim 1.
- 17. A method for the prevention or treatment of thrombosis in a mammal in
   20 need of such therapy comprising the administration of a therapeutically effective amount of a compound of claim 6.
- 18. A method for the prevention or treatment of thrombosis in a mammal in need of such therapy comprising the administration of a therapeutically effective amount
   of the composition of claim 13.
  - 19. A method for the prevention or treatment of thrombosis in a mammal in need of such therapy comprising the administration of a therapeutically effective amount of the composition of claim 14.